Issue C **June 2011**

Speech Products Software Installation Instructions

These instructions are for the following products:

- Computerized Speech Lab (CSL), Models 4500 and 4150B
- Multi-Speech, Model 3700
- CSL/Multi-Speech software options, Models 3506, 4326, 4332, 4333, 4337, 5104, 5105, 5109, 5121, 5127, 5129, 5138, 5141, 5150, and 5167B
- Visi-Pitch IV, Model 3950B
- Sona-Speech II, Model 3650

KayPENTAX
A Division of PENTAX Medical Company
3 Paragon Drive
Montvale, NJ 07645-1725 USA

Toll-Free Telephone: 1-800-289-5297 (In USA and Canada only)
Tel: (973) 628-6200
Fax: (201) 391-2063
E-mail: service@kaypentax.com
Web: www.kaypentax.com

Control No. 5400-2800 Issue C

TABLE OF CONTENTS

Chapter 1 – Introduction **1**

Overview 1
System Requirements 1
Speech Product Components 2
Hardware Manuals 2
Software Manuals 2

Chapter 2 – Software Setup and Installation **3**

Major Steps for Installation of KayPENTAX Speech Products 3
Installing the Application Software 3
New Installation 4
No KayPENTAX Software Currently on Computer 4
Installing the Security Key 5
Additional Software Option Installation 6
KayPENTAX Software Currently on Computer 6
Test the Software Installation 7

Appendix A – Troubleshooting **8**

Chapter 1 – Introduction

Overview

This document provides information about the system requirements and provides a step-by-step guide to installing KayPENTAX speech product software. Setup of hardware is described in the applicable Hardware Installation and Maintenance Manual or the product's Instruction Manual. If problems occur during installation, users are encouraged to review the troubleshooting section and contact KayPENTAX's technical service department for further assistance.

System Requirements

1.	Current CPU ≥ 2 GHz
2.	Windows® 7, Vista, or XP operating system
3.	Graphics card and monitor that supports a minimum screen resolution of 1280x1024 (1600x1200 recommended)
4.	20 GB (or greater) hard disk
5.	512 MB of RAM for Windows XP operating system; 1 GB of RAM for Windows Vista and 2 GB of RAM for Windows 7*
6.	CD or DVD drive
7.	One free USB port
8.	On-board audio device (For Sona-Speech™ II and Multi-Speech™)
9.	One free full-height, half-size PCI slot (For CSL™ 4150B, CSL 4500, and Visi-Pitch™ 3950B)

*Additional requirements if upgrading Voice Games, Model 5167B; Visi-Pitch, Model 3950B;or Sona-Speech, Model 3650:

- 1 GB RAM for Windows XP operating system (or 512 MB RAM and a graphics card with 128 MB memory).
- 2 GB RAM for Windows Vista operating system (or 1 GB RAM and a graphics card with 128 MB memory).

NOTE: If your system does not meet these requirements, do not install the KayPENTAX speech product on this system. Obtain a system with sufficient resources to support this program.

Windows is a registered trademark of Microsoft Corporation. Sona-Speech, Multi-Speech, CSL, and Visi-Pitch are trademarks of PENTAX of America, Inc.

Speech Product Components

Unpack and inspect the delivered components. The following parts should be included in each software product:

1. *Speech Products Software Installation Instructions* (this document)
2. Software installation disc for each speech product (with PDF file of Software Instruction Manual)
3. Speech Products Master Upgrade discs (Service Pack 1 and Service pack 2), with instructions
4. Software security key

If for any reason parts are damaged or missing, immediately contact the factory or a KayPENTAX representative.

Hardware Manuals

The following products have a hardware component that is not described in this manual. An additional parts list is provided in that product's Hardware Installation and Maintenance Manual or Instruction Manual. This manual also provides hardware setup, operation information, specifications, and troubleshooting specific to the speech product being installed. The following products have a Hardware Installation and Maintenance Manual or Instruction Manual:

1. Computerized Speech Lab (CSL), Models 4500 and 4150B
2. Visi-Pitch IV, Model 3950B
3. Voice Range Profile (VRP), Model 4326
4. Electroglottograph (EGG), Model 6103
5. Preamplifiers and Microphones (for use with Sona-Speech II, Model 3650, or Multi-Speech, Model 3700)

Software Manuals

The Software Instruction Manuals for these products are available as a PDF file on the Software Installation disc. To view or print the PDF manual, insert the software installation disc and select the button "View/Print Manual." Adobe Reader is required. The PDF manual is also available in the software application by selecting Help, Open Help.

Additional Software Option Installation

KayPENTAX Software Currently on Computer

If a KayPENTAX speech program is being added to a computer with existing KayPENTAX applications, install the software as follows:

1. In the existing KayPENTAX application, go to the **Help** menu and select **About**. The version of the software is reported in the About box.

2. Software versions 2.4 and lower are not upgradeable. New products or new options for current products cannot be installed on the same host computer as these older versions of KayPENTAX software. Please see the Speech Products Master Upgrade instructions for additional details on product incompatibility or contact KayPENTAX technical support for upgrade options for all products version 2,4 or earlier.

3. If the existing software is upgradeable and is version 3.3 or earlier, run the Master Upgrade to update all current software. Insert the Speech Products Master Upgrade Service Pack 1 disc into the appropriate drive, and then click the **Install Master Upgrade** button on the KayPENTAX install screen.

NOTE: If autorun is not enabled on the computer, you must manually launch the application installer each time a KayPENTAX installation disc is inserted into the drive. From the Start Menu, select Run. Type *x*:\autorun.exe in the Open edit box, and then press Enter, where *x*:\ is assigned to your CD or DVD drive (e.g., if the CD or DVD drive is drive D, type d:\autorun.exe).

4. Insert the core program software installation disc (i.e., CSL Main Program, Multi-Speech, Visi-Pitch, or Sona-Speech) into the appropriate drive, and then click the **Install** button for the application software.

5. If you are installing new options (e.g., Real-Time Pitch), install them now. For each option, insert the software application disc into the appropriate drive, then click the **Install** button for the application software.

6. After installing the core program and all options, insert the Speech Products Master Upgrade Service Pack 2 disc into the appropriate drive, and then click the **Install Master Upgrade** button on the KayPENTAX install screen. This will install the latest software updates for all KayPENTAX products on the computer.

Figure 2.2 shows a flowchart of the process of upgrading an existing install or adding new KayPENTAX audio applications to an existing install.

New Installation

No KayPENTAX Software Currently on Computer

If this is a new installation and no other KayPENTAX audio application is presently installed on the computer, install the KayPENTAX speech program as follows:

1. Insert the Main program software installation disc (i.e., CSL Main Program, Multi-Speech, Visi-Pitch, or Sona-Speech) into the appropriate drive.

2. If autorun is enabled on the computer, the KayPENTAX install screen is displayed. Click the **Install** button for the application software.

> **NOTE: If autorun is not enabled on the computer, you must manually launch the application installer. From the Start Menu, select Run. Type *x*:\autorun.exe in the Open edit box, and then press Enter, where *x*:\ is assigned to your CD or DVD drive (e.g., if the CD or DVD drive is drive D, type d:\autorun.exe).**

3. The install program will ask several questions to customize the installation. Follow the onscreen directions until the application software installation is complete. The serial number requested on the Customer Information window can be found on the application software CD case and should be entered exactly as shown, including the dashes.

4. After the application software is installed, the KayPENTAX install screen is redisplayed. Click the **Install Security Key Driver** button and follow the onscreen prompts until the security key driver installation is complete.

5. After installing the application software and the security key driver, click **Exit** to close the KayPENTAX install screen, and then remove the disc from the drive.

6. If any software options were purchased with the Main program (e.g., Real-Time Pitch), install them now. For each option, insert the software installation disc into the appropriate drive, then click the **Install** button for the application software. (If autorun is not enabled on the computer, run **autorun.exe** from the disc to launch the KayPENTAX install screen.)

7. Finally, after installing the Main program and all options, run the Master Upgrade. Insert the Speech Products Master Upgrade Service Pack 2 disc into the appropriate drive, and then click the **Install Upgrade** button on the KayPENTAX install screen. (If autorun is not enabled on the computer, run **autorun.exe** from the disc to launch the KayPENTAX install screen.) This will install the latest software updates for all KayPENTAX products on the computer.

Figure 2.1 shows a flowchart of the process of installing new CSL Main Program or Multi-Speech software and options on a computer where no KayPENTAX audio products were previously installed.

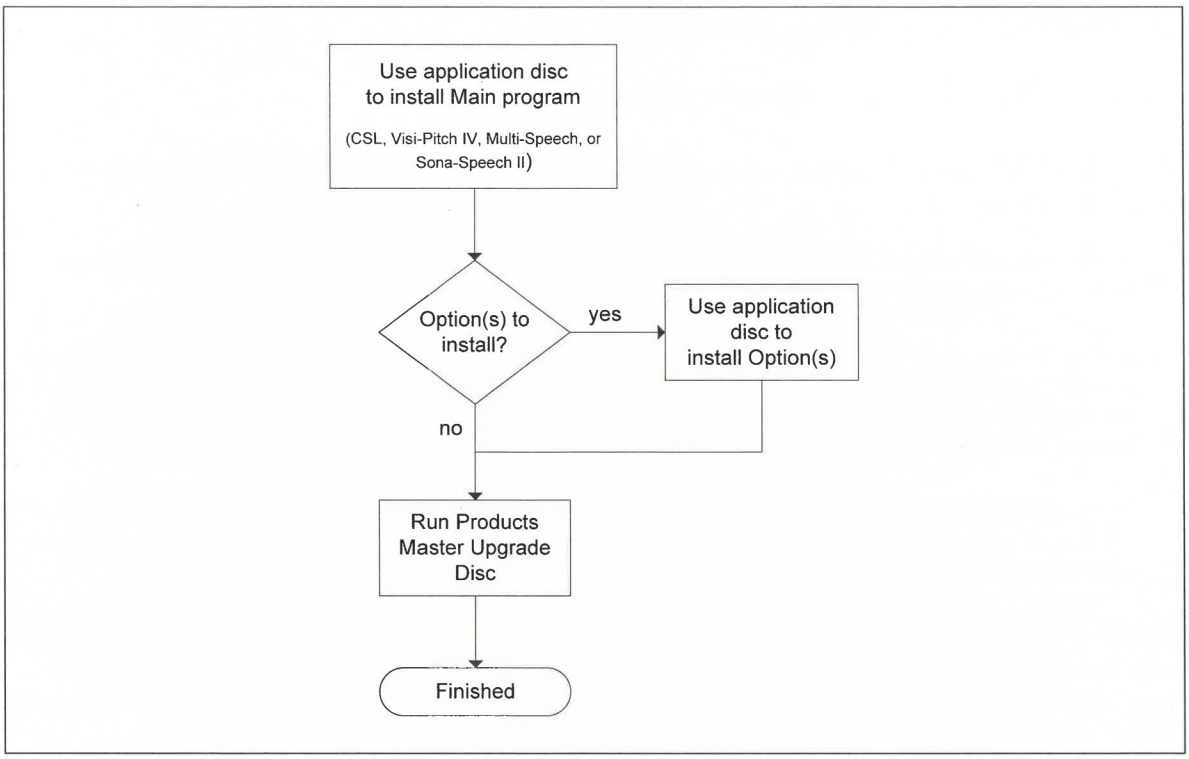

Figure 2.1: Flowchart for a new installation with no previous KayPENTAX software installed.

Installing the Security Key

A security key is provided to operate the KayPENTAX speech program. A security key is used rather than a license limitation on the number of computers to which the system can be installed. This has both advantages and disadvantages. The advantage of the security key approach is that the user can install a single purchased Multi-Speech on many computers (e.g., at home, office, and lab). The small lightweight key can be easily moved to each computer for use. The disadvantages of the security key are that the user must remember to move it to the "active" computer system and that the key can be misplaced.

Chapter 2 – Software Setup and Installation

Major Steps for Installation of KayPENTAX Speech Products

The speech programs are installed in the host computer using the procedure described below. There are three major operational steps:

1. **Installation of Hardware (For CSL and Visi-Pitch):**

   a. Insert the audio card into the computer.

   b. Connect external module to AC power source, microphone, speaker, and computer (using cable).

2. **Installation of Audio Device Driver:** Installs information about the audio card so that the operating system can communicate with the hardware.

3. **Installation of Application Software:** Installs the speech program application software, including the use of the Master Upgrade to update any existing KayPENTAX software (if needed), and installs the latest software updates that may not have been on your software installation disc.

Steps 1 and 2 are for CSL, Model 4150B and 4500, and Visi-Pitch IV, Model 3950B, and are described in more detail in the applicable Hardware Installation and Maintenance Manual.

Installing the Application Software

This section provides information about installing the KayPENTAX speech software program to your computer or updating the software you had previously installed. Installation of CSL, Sona-Speech, Visi-Pitch, or Multi-Speech requires both application software installation discs and the Speech Products Master Upgrade.

Software installation procedures differ depending on whether KayPENTAX audio applications are presently installed on the computer or whether it is a new install. **No KayPENTAX Software Currently on Computer** describes the installation procedures when installing a KayPENTAX speech program onto a computer with no other KayPENTAX acoustic products already installed. **KayPENTAX Software Currently on Computer** describes the procedures for upgrading a KayPENTAX speech program or for installing a KayPENTAX speech program onto a computer with other KayPENTAX software already installed. Both procedures involve the use of the Master Upgrade.

The Master Upgrade serves two different purposes. First, because new versions of KayPENTAX software should not be mixed with old versions of KayPENTAX software, the "upgrade" is used to bring most of the already installed older software up to the current version. This is done BEFORE any new install to prepare the system for the installation of newly purchased items. The Speech Products Master Upgrade cannot upgrade some very old versions of software, and these will need to be identified and uninstalled using Windows prior to the new installs. Second, the Master Upgrade is used AFTER any new install to bring these installs up to the very latest version. The installation program for each new model may not have the very latest code. The Master Upgrade is constantly updated to ensure that the system has the very latest changes.

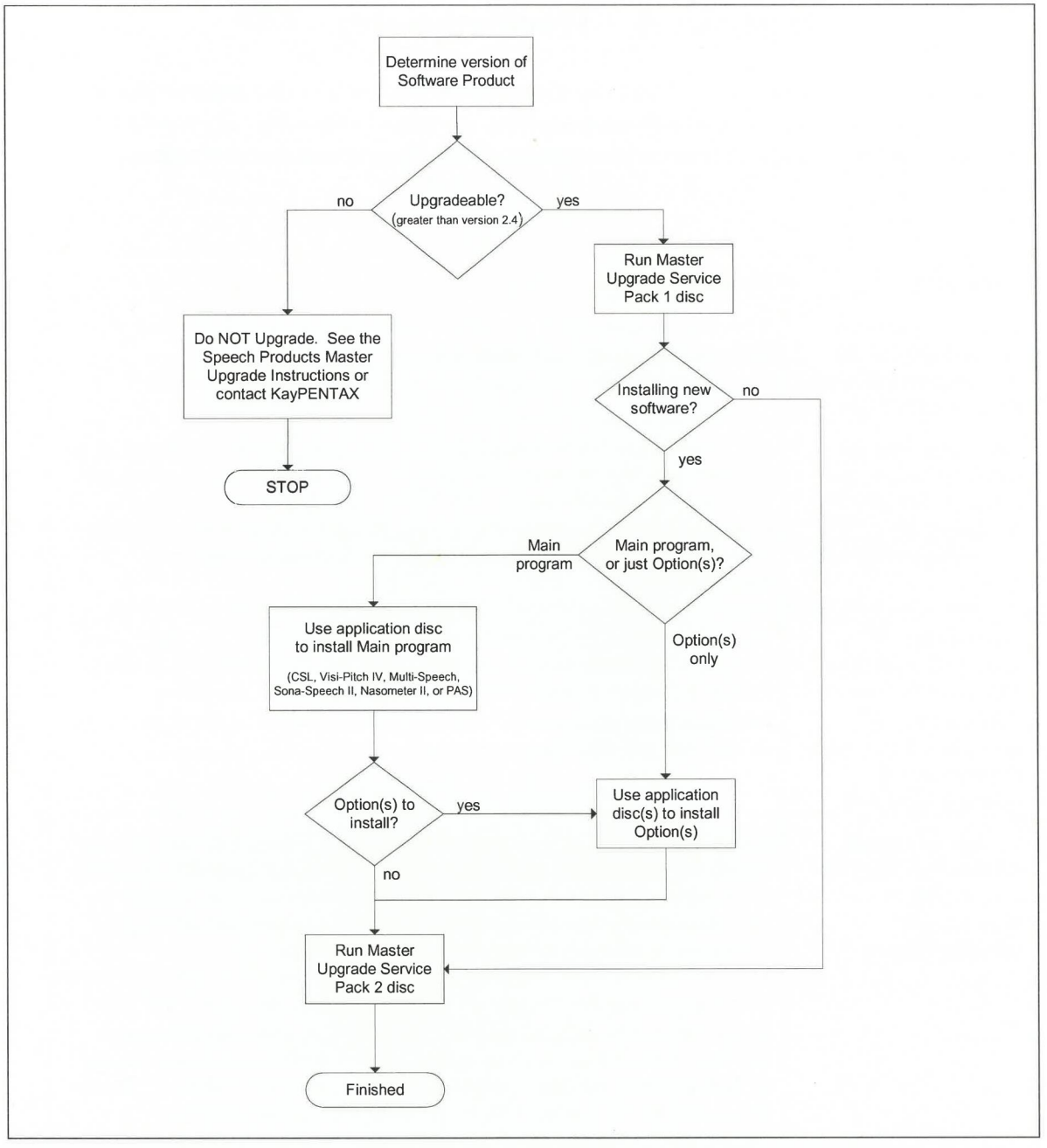
Determine version of Software Product
Upgradeable? (greater than version 2.4)
no
yes
Do NOT Upgrade. See the Speech Products Master Upgrade Instructions or contact KayPENTAX
STOP
Run Master Upgrade Service Pack 1 disc
Installing new software?
no
yes
Main program
Main program, or just Option(s)?
Use application disc to install Main program
(CSL, Visi-Pitch IV, Multi-Speech, Sona-Speech II, Nasometer II, or PAS)
Option(s) only
Option(s) to install?
yes
Use application disc(s) to install Option(s)
no
Run Master Upgrade Service Pack 2 disc
Finished

Figure 2.2: Flowchart for upgrade installation or for adding new products to an existing installation.

Test the Software Installation

After installing the software and plugging in the security key, run the program to verify the ability to record and play audio data.

If data capture does not work or if an error message is displayed, refer to **Appendix A – Troubleshooting** for steps to resolve the most common issues.

Appendix A – Troubleshooting

This section provides some tips and strategies for some of the problems you might encounter while installing and operating the program. Note that troubleshooting steps may be different when using CSL/Visi-Pitch IV hardware, Multi-Speech/Sona-Speech II with a preamplifier, or Multi-Speech/Sona-Speech II without a preamplifier.

Problem	Possible Solutions
When installing CSL or Visi-Pitch IV, the host computer does not have a free PCI slot	You must remove one of the devices currently using a PCI slot (an audio card, maybe) or use a different computer.
When launching the software, receive the message "Security key not found" or "Command unknown"	The security key is not inserted and/or the security key driver has not been properly installed. Plug security key into an available USB port and ensure that a red light appears on the USB key to show it is activated. If key is already inserted or message still occurs, reload the security key driver. See **Installing the Security Key** in **Chapter 2 – Software Setup and Installation**.
When using CSL 4500, CSL 4150B, or Visi-Pitch IV, "New Hardware Found" dialog box continues to display when the system is turned on	The Lynx TWO/L22 driver may not be installed properly. For instructions on how to install the driver, refer to Installation of Lynx TWO/L22 Device Driver in Chapter 2 of the *CSL Model 4500 and 4150B, Hardware Installation and Maintenance Manual* or the *Visi-Pitch IV Hardware Installation and Maintenance Manual.*
No data is captured when using CSL 4500, CSL 4150B, or Visi-Pitch IV, after selecting **Record**	Check that the CSL or Visi-Pitch IV hardware is powered on and properly connected, and that the microphone is powered on and properly connected. See Chapter 2 of the *CSL, Model 4500 and 4150B, Hardware Installation and Maintenance Manual* or the *Visi-Pitch IV Hardware Installation and Maintenance Manual* for hardware setup instructions.
	If you are running the Windows 7 operating system, the Lynx TWO/L22 driver may not be installed properly. Make sure you have restarted your machine at the end of the Lynx device driver installation. For instructions on how to install the driver, refer to Installation of Lynx TWO/L22 Device Driver in Chapter 2 of the *CSL Model 4500 and 4150B, Hardware Installation and Maintenance Manual* or the *Visi-Pitch IV Hardware Installation and Maintenance Manual.*
	If you have both a CSL 4500 and PAS connected to the same computer, check that the switchbox has been turned to CSL. See Installation of CSL 4500 Hardware into a computer with a PAS 6600 in Chapter 2 of the *CSL, Model 4500 and 4150B, Hardware Installation and Maintenance Manual* for instructions on proper installation of the CSL with a switchbox.

Problem	Possible Solutions
No data is captured when using Multi-Speech with a preamplifier, after selecting **Record**	Ensure that the preamplifier is powered on and properly connected. If using KayPENTAX Model 3708 or 3710, see the *Microphones and Preamps Hardware Installation and Maintenance Manual* for more information on proper hardware connection.
	Check that the microphone is powered on and properly connected. If you are using the KayPENTAX Model 3706 microphone, ensure that a fresh battery is inserted. See the *Microphones and Preamps Hardware Installation and Maintenance Manual* for more information.
	Check that the default recording device and volume settings in the Sound Options accessed through the Windows Control Panel are properly selected. When using with a preamp such as KayPENTAX Model 3708, select "line in" input. See *Microphones and Preamps Hardware Installation and Maintenance Manual* for more information.
	If using the Windows Vista Operating System, ensure the default recording device has not been muted. Access the Sound control from the Control Panel. Then click the **Properties** button on the Line Input device, and go to the Levels Tab. Verify that the device does not have a red No Sounds symbol, and that the levels are at a midway mark.
No data is captured when using Multi-Speech with a Microphone Input (no preamplifier), after selecting **Record**. Note: Direct microphone input is not recommended.	Check that the microphone is powered on and properly connected. If you are using the KayPENTAX Model 3706 microphone, ensure that a fresh battery is inserted. See the *Microphones and Preamps Hardware Installation and Maintenance Manual* for more information.
	Check that the default recording device and volume settings in the Sound Options accessed through the Windows Control Panel are properly selected. When using with a standard audio card select "microphone." See the *Microphones and Preamps Hardware Installation and Maintenance Manual* for more information.
Data dropouts occur during capture or playback when using CSL 4500, CSL 4150B, or Visi-Pitch IV.	This may be caused by conflicts with other PCI devices. Remove all PCI devices except the KayPENTAX device (LynxTWO audio card). Check to see if the dropouts still occur. If not, reinstall the PCI devices one at a time to find the unfriendly card. If the dropout continues even with all other cards removed, contact the KayPENTAX technical service department.